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BADM 270.01: Quantitative Business Applications

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University of Montana - Missoula

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Quantitative Business Applications
Syllabus
Spring, 2003

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Office Hours: 9-11 MWF
or by appointment

Course Description:

This course is designed to enhance business students' skills in the use of spreadsheets to model and analyze business problems. Students will solve business problems using statistical methods, simulation, and linear programming.

Textbook:

Business Administration 270 University of Montana: a custom text compiled from *Contemporary Business Statistics with Microsoft Excel* and *Contemporary Management Science with Spreadsheets*, both by Anderson, Sweeney, and Williams

Evaluation:

| | <u>Points Possible</u> | <u>Percentage</u> |
|---------------------------------|------------------------|-------------------|
| Lab tests (4 @ 50 pts. each) | 200 | 54% |
| Homework (8 @ 10 pts. each) | 80 | 22% |
| Project | 50 | 13% |
| Attendance (1 each session) | 40 | 11% |
| Classroom Presentation (5 pts.) | | Bonus |
| Total | 370 | |

Notes:

- 1. This course is graded on a Pass / Fail basis. Students who accumulate 240 points will receive a Pass for the final grade.**
2. Attendance will be taken at the beginning of class (and occasionally at the end of class, also). Be sure to be present at 8:10 to receive attendance credit.
3. Notify the instructor immediately to arrange a makeup if illness precludes you from taking a test.

The faculty and staff of the School of Business Administration at The University of Montana-Missoula are committed to excellence in innovative experiential learning and professional growth through research and service.

Tentative Schedule

| Date | Chapter / Topic | Assignments |
|-------------|--|----------------------------|
| 1/27 | Course Introduction | |
| 1/29 | Ch. 2; Data and Graphing | |
| 1/31 | Ch. 2; Data and Graphing | |
| 2/3 | Lab | 7, 41,42,46,47 |
| 2/5 | Class Presentations; Ch. 3 | HW due before class |
| 2/7 | Ch. 3; Descriptive Statistics | |
| 2/10 | Ch. 3; Descriptive Statistics | |
| 2/12 | Lab | 12,56,58,61,65 |
| 2/14 | Class Presentations; Test Review | HW due before class |
| 2/19 | Exam 1 | |
| 2/21 | Ch. 6; Continuous Probability Distributions | |
| 2/24 | Ch. 6; Continuous Probability Distributions | |
| 2/26 | Lab | 34,35,37,39,44 |
| 2/28 | Class Presentations; Ch. 9 | HW due before class |
| 3/3 | Ch. 9; Hypothesis Testing | |
| 3/5 | Ch. 9; Hypothesis Testing | |
| 3/7 | Ch. 9; Hypothesis Testing | |
| 3/10 | Lab | 37,50,51,52,56 |
| 3/12 | Class Presentations; Test Review | HW due before class |
| 3/14 | Exam 2 | |
| 3/17 | Regression | |
| 3/19 | Regression | |
| 3/21 | Regression | Project Proposals Due |
| 3/31 | Lab | TBA |
| 4/2 | Class Presentation; MS Ch. 8 | HW due before class |
| 4/4 | MS Ch. 8; Simulation | |
| 4/7 | MS Ch. 8; Simulation | |
| 4/9 | Lab | 9,12,18,TBA, See Notes |
| 4/11 | Class Presentations; Test Review | HW due before class |
| 4/14 | Exam 3 | |
| 4/16 | MS Ch. 2; Intro. to Linear Programming | |
| 4/18 | MS Ch. 2: Intro. to Linear Programming | |
| 4/21 | MS Ch. 2: Intro. to Linear Programming | Data for project due |
| 4/23 | Lab | 21,22,28,31,38 |
| 4/25 | Class Presentations; MS Ch. 3 | HW due before class |
| 4/28 | MS Ch. 3; LP Sensitivity Analysis and Interpretation | |
| 4/30 | MS Ch. 3; LP Sensitivity Analysis and Interpretation | |
| 5/2 | MS Ch. 3; LP Sensitivity Analysis and Interpretation | |
| 5/5 | Lab | 25,28,32 |
| 5/7 | Class Presentations | HW due before class |
| 5/9 | Project Review; Test Review | |
| 5/14 | Exam 4 (10:10 – 12:10) | |